37210

Facility Name: Asbestos Dump Site

Location: Millington, New Jersey

EPA Region: II

Person(s) in Charge of the Facility: Morris Trichon

Name of Reviewer: Renee R. Bobal Date: 8/6/82

General Description of the Facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

The Asbestos Dump site in Millington, New Jersey is located adjacent to the Passaic River. The site is the result of years of dumping by several asbestos processing companies. Since the time the dumping was stopped, the site has been covered over by soil and vegetation. Although the base of the dump along the river bank has been reinforced with riprap, erosion and weathering have exposed small areas of asbestos. Allegations also have been made that phenylmercuric acetate has been dumped at the site.

Scores: $S_M = 39.61$ ($S_{gw} = 0$ $S_{sw} = 68.53$ $S_a = 0$)

$S_{FE} = 0$

$S_{DC} = 25$

HRS COVER SHEET

GROUND WATER ROUTE WORK SHEET

	Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1	Observed Release	0 45	1	O	45	3.1
	If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2	Route Characteristics					3.2
	Depth to Aquifer of Concern	0 1 2 3	2		6	
	Net Precipitation	0 1 2 3	1		3	
	Permeability of the Unsaturated Zone	0 1 2 3	1		3	
	Physical State	0 1 2 3	1		3	
	Total Route Characteristics Score				15	
3	Containment	0 1 2 3	1		3	3.3
4	Waste Characteristics					3.4
	Toxicity/Persistence	0 3 6 9 12 15 18	1		18	
	Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score				26	
5	Targets					3.5
	Ground Water Use	0 1 2 3	3		9	
	Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1		40	
	Total Targets Score				49	
6	If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5				57,330	
7	Divide line 6 by 57,330 and multiply by 100	S_{gw} = O *				

* Asbestos is an insoluble silicate which does not migrate through ground water; no evidence exists at present. Also, the soils and geology of the area do not promote migration to groundwater.

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SURFACE WATER ROUTE WORK SHEET

	Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1	Observed Release	0 (45)	1	45	45	4.1
	If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2	Route Characteristics					4.2
	Facility Slope and Intervening Terrain	0 1 2 3	1		3	
	1-yr. 24-hr. Rainfall	0 1 2 3	1		3	
	Distance to Nearest Surface Water	0 1 2 3	2		6	
	Physical State	0 1 2 3	1		3	
	Total Route Characteristics Score				15	
3	Containment	0 1 2 3	1		3	4.3
4	Waste Characteristics					4.4
	Toxicity/Persistence	0 3 6 9 12 (15) 18	1	15	18	
	Hazardous Waste Quantity	0 1 2 3 4 (5) 6 7 8	1	5	8	
	Total Waste Characteristics Score			20	26	
5	Targets					4.5
	Surface Water Use	0 1 2 (3)	3	9	9	
	Distance to a Sensitive Environment	(0) 1 2 3	2	0	6	
	Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 (40)	1	40	40	
	Total Targets Score			49	55	
6	If line 1 is 45, multiply 1 x 4 x 5 45 x 4 x 49 If line 1 is 0, multiply 2 x 3 x 4 x 5			44100	64,350	
7	Divide line 6 by 64,350 and multiply by 100	S_{sw} = 68.53				

AIR ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	5.1
Date and Location:					
Sampling Protocol:					
If line 1 is 0, the S = 0. Enter on line 5. If line 1 is 45, then proceed to line 2.					
2 Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score			20	
3 Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
	Total Targets Score			39	
4 Multiply 1 x 2 x 3				35,100	
5 Divide line 4 by 35,100 and multiply by 100	S_a = 0				

	S	S^2
Groundwater Route Score (S_{gw})	0	0
Surface Water Route Score (S_{sw})	68.53	4693.36
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		4693.36
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		68.53
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73$		S_M = 39.61

WORKSHEET FOR COMPUTING S_M

FIRE AND EXPLOSION WORK SHEET

	Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1	Containment	1 3	1		3	7.1
2	Waste Characteristics					7.2
	Direct Evidence	0 3	1		3	
	Ignitability	0 1 2 3	1		3	
	Reactivity	0 1 2 3	1		3	
	Incompatibility	0 1 2 3	1		3	
	Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score				20	
3	Targets					7.3
	Distance to Nearest Population	0 1 2 3 4 5	1		5	
	Distance to Nearest Building	0 1 2 3	1		3	
	Distance to Sensitive Environment	0 1 2 3	1		3	
	Land Use	0 1 2 3	1		3	
	Population Within 2-Mile Radius	0 1 2 3 4 5	1		5	
	Buildings Within 2-Mile Radius	0 1 2 3 4 5	1		5	
	Total Targets Score				24	
4	Multiply 1 x 2 x 3				1,440	
5	Divide line 5 by 1,440 and multiply by 100	S_{FE} = 0				

DIRECT CONTACT WORK SHEET

	Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1	Observed Incident	(0) 45	1	0	45	8.1
	If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2	Accessibility	0 1 2 (3)	1	3	3	8.2
3	Containment	0 (15)	1	15	15	8.3
4	Waste Characteristics Toxicity	0 1 (2) 3	5	10	15	8.4
5	Targets					8.5
	Population Within a 1-Mile Radius	0 1 2 (3) 4 5	4	12	20	
	Distance to a Critical Habitat	(0) 1 2 3	4	0	12	
	Total Targets Score			12	32	
6	If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			5400	21,600	
7	Divide line 6 by 21,600 and multiply by 100	S_{DC} = 25				

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: Asbestos Dump Site

LOCATION: Millington, New Jersey

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):
No analytical results exist.
Asbestos is an insoluble silicate which does not migrate through ground water. At present, no evidence exists on ground water migration of asbestos. Furthermore, the soils and geology of the area do not promote migration to groundwater.
Score is 0.

Rationale for attributing the contaminants to the facility:

Soils - overburden - clay
depth ≥ 2 ft.
Bedrock - basalt. - Ref # 6, 7 - Professional judgement by FIT hydrogeologists

* * *

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

Depth from the ground surface to the lowest point of waste disposal/ storage:

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

Mean annual lake or seasonal evaporation (list months for seasonal):

Net precipitation (subtract the above figures):

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Permeability associated with soil type:

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Method with highest score:

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Compound with highest score:

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Basis of estimating and/or computing waste quantity:

* * *

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

Distance to above well or building:

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

Total population served by ground water within a 3-mile radius:

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

Asbestos EPA test of Passaic Valley Water Commission raw water 12/77
river intake
769,000 fibers/liter

Rationale for attributing the contaminants to the facility:

Asbestos dump on Passaic River - no other asbestos sources known

* * *

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Name/description of nearest downslope surface water:

Average slope of terrain between facility and above-cited surface water body in percent:

Is the facility located either totally or partially in surface water?

Facility is located on the banks of the Passaic River and the waste water into the River => off-site observation by Fred C. Hart Associates personnel

Is the facility completely surrounded by areas of higher elevation?

1-Year 24-Hour Rainfall in Inches

Distance to Nearest Downslope Surface Water

Physical State of Waste

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Method with highest score:

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Asbestos Item #1

Compound with highest score:

Asbestos Tox = 2, Per = 3 => (15) from Mitre Manual, item 3

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

251-625 tons/cubic yards (3) Based on field observation by Fred C. Hart Associates personnel

Basis of estimating and/or computing waste quantity:

field observation of stakes of site by Passaic River Coalition

40' x 20' x 10' = 12,000 cu ft = 444 cu yd

length x depth x width

* * *

item 4

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Potable

Passaic Valley Water Commission, Little Falls, N.J.

Asbestos in raw water

Is there tidal influence?

no

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

none

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

none

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

> 1 mile

Great Swamp Wildlife Refuge

NJDEP, Div. of Fish, Game, & Wildlife

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

Passaic Valley Water Commission

300,000 people

2/3 from Passaic River ⟹ 200,000 people

1/3 from Wanaque Reservoir

asbestos fibers in raw water, ∴ distance is 0'

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

None

Total population served:

None

Name/description of nearest of above water bodies:

None

Distance to above-cited intakes, measured in stream miles.

—

1 OBSERVED RELEASE

Contaminants detected:

None - Score = 0

Date and location of detection of contaminants

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

* * *

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Most incompatible pair of compounds:

Toxicity

Most toxic compound:

Hazardous Waste Quantity

Total quantity of hazardous waste:

Basis of estimating and/or computing waste quantity:

* * *

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Distance to critical habitat of an endangered species, if 1 mile or less:

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

MEMO

TO Spill File

FROM Dennis Faherty DATE December 16, 1980

SUBJECT Asbestos Dumps, Great Swamp and Millington

August 28, 1980

C. Bartolone and D. Faherty inspected the asbestos located at the Great Swamp. Mrs. Sims and two students accompanied us to the site. We observed at "nature path" made from asbestos type housing tiles. The path is over 200 yards long, and at least one foot deep. A sample of the shingles was taken. D. Faherty advised Mrs. Sims that the situation will be referred to Solid Waste.

August 29, 1980

D. Faherty called the Bureau of Hazardous Waste. Mr. Harvey Duhamil informed D. Faherty that the asbestos type shingle are not considered hazardous. He added that the asbestos type shingles are normally disposed of in regular landfills.

October 8, 1980

Anne Marie Cottone, Star Ledger, reporter, notified Dennis Faherty that she had received a report from Mike Barga (201-766-4210) that raw asbestos was also dumped at the Great Swamp "nature trail".

November 25, 1980

D. Faherty reinspected the asbestos "nature path" in the Great Swamp Refuge. It had rained steadily the day before. The purpose of this inspection was to take samples to determine if the asbestos was entering the adjacent water bodies.

I observed at a lower elevated section of the nature path, that the asbestos fragments were in fact submerged in the water. I took two grab samples of the decomposing tile fragments on the bottom sediment of Great Brook. It appears the shingles are dissolvi because there is a white muck attached to the fragments over the darker sediment.

December 3, 1980

Arrived at the Millington train station to meet Tom Berry, N.J. Public Interest Research Group. Mr. Berry had agreed to meet and show me the three other asbestos dump sites in the Great Swamp and vicinity.

Tom Berry arrived at the Millington train station. The first site we inspected was the large asbestos hill located behind the Tifa Ltd. Plant, 50 Division St., Millingto The asbestos hill was was the result of years of dumping by the National Gypsum Compan the previous owners of the property. I observed large areas of exposed asbestos alonc the hill. The asbestos was both loose sludge and pieces of the raw mineral.

The hill is directly adjacent to the Passaic River (source of drinking water). I took two grab samples of the exposed asbestos.

Mr. Berry informed me that the D.E.P. had taken the National Gypsum Company to court year or so ago. The D.E.P. had settled for having the asbestos covered over with a local soil.

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The soil has since erode in large areas, again exposin the asbestos. Each rain will wash this exposed asbestos directly into the Passaic River, located less than fifteen feet away.

We then proceeded to inspect the other dumps in the Great Swamp Refuge.

On the dead end side of Whitebridge Raod, there is a private residential driveway made of the same asbestos shingle fragments found at the nature trail. Mr. Berry also thin that there is an asbestos dump in the rear of the driveway.

The other dump site is located at the Pine Valley Tree Service driveway. The driveway is made of asbestos shingle fragments and there is an alledged dump in the rear of the property.

Mr. Berry informed me that Tifa Ltd.is planning on expanding their facility, and build a parking lot on top of the asbestos hill. Mr. Berry said that the city has the deta Mr. Berry also told me that an ex-employee of National Gypsum Company, Michael Burke, (201-766-4210) has addition first hand information regarding the dumping practices tha had occurred years ago.

DF:dg

Conclusion: Asbestos ... sites in the vicinity of the Great Swamp Refuge that contain asbestos in various forms (shingle fragment, loose sludge, raw mineral). At each site, the asbestos is directly exposed to the environment. There is evidence that the asbestos shingles degrade into fibers in the water, as observed at the nature trail in the Great Swamp. The asbestos hill behind the Tifa Ltd. facility has large exposed areas of asbestos sludge easily capable of eroding and washing directly into the Passaic River. The nature trail and driveway sites could pose health problems to individuals during dry weather periods by raising dangerous asbestos dust into the atmosphere.

There is also a report by an ex-employee that chemicals such as phenol mercury acetat was dumped in the asbestos hill behind the Millington plant.

Recommendations: The exposed asbestos at the driveway sites and the nature trail should either be physically removed and disposed of at a secure landfill or at the very least, should be completely covered over with a clay type soil, and then with an additional layer of stone.

Because of the close location of the asbestos hill to the Passaic River, an immediate effort should be made to properly cover over the exposed areas.

Perhaps a plan can be drawn up utilizing the asbestos hill as the disposal site for the asbestos at the nature trail. The details of this plan would have to be negotiate with Tifa Ltd., Bureau of Solid Waste, the National Gypsum Company and the Division of Hazard Management.

In addition to securely covering or removing the asbestos from the driveways and hill, I feel observation well should be installed in the asbestos hill to confirm or deny the report that chemicals were dumped there years ago. Samples should be taken to the extent of the contamination and impact on the environment, especially the Passaic Rive The Spill Fund may have to be activated if the Department feels that the clean up of the asbestos is an environmental priority.

dm-1

BIBLIOGRAPHY OF INFORMATION SOURCES USED TO

APPLY THE HAZARD RANKING SYSTEM*

	TITLE	DATE	AUTHOR/PUBLISHER	AVAILABLE FROM
1.	Memo to Spill File, Asbestos Dumps, Great Swamp and Millington	12/10/80	Dennis Faherty, NJDEP	NJDEP
2.	US Geologic Survey Topographic Quadrangles Bernardsville, Chatham, Plainfield, BoundBrook, NJ	1965	USGS	USGS
3.	Uncontrolled Hazardous Waste Site Ranking System - A Users Manual	6/10/82	USEPA	USEPA
4.	Conversation with Ella Philleppone of Passaic River Coalition + access to Coalition's files	8/10/82	-	Passaic River Coalition (201)766-7550
5.	telephone conversation with NJDEP, Potable Water Division	8/6/82	-	NJDEP
6.	A Preliminary Map of the Surface Formations of the Valley of Passaic. Prepared by Rollin D. Salisbury	1894	USGS - NJ	USGS - NJ
7.	Soil Survey of Morris County, New Jersey	8/76	Soil Conservation Service	Soil Conservation Service
8.				
9.				
10.				

*Attach additional pages, if necessary.

LIST OF ATTACHED EXCERPTS OF

SUPPORTING DOCUMENTATION*

	TYPE OF INFORMATION	SOURCE
1.	Memo to Spill File, Asbestos Dumps, Great Swamp and Millington	NJDEP
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

*Attach additional pages, if necessary.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION: II

SITE NUMBER (To be assigned by HQ):

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (*Section II*). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Tack Force (*EN-335*); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME: Asbestos Dump Site

B. STREET (*or other identifier*): TIFA Square

C. CITY: Millington

D. STATE: NJ

E. ZIP CODE:

F. COUNTY NAME: Morris

G. SITE OPERATOR INFORMATION

1. NAME: National Gypsum Company

2. TELEPHONE NUMBER: (214) 653-8511

3. STREET: 4100 1st International Bldg

4. CITY: Dallas

5. STATE: TX

6. ZIP CODE: 75270

H. REALTY OWNER INFORMATION (*if different from operator of site*)

1. NAME: TIFA Ltd

2. TELEPHONE NUMBER: (201) 647-4570

3. CITY: Millington

4. STATE: NJ

5. ZIP CODE: 07946

I. SITE DESCRIPTION: Dump

J. TYPE OF OWNERSHIP

☐ 1. FEDERAL ☐ 2. STATE. ☐ 3. COUNTY ☐ 4. MUNICIPAL ☒ 5. PRIVATE

II. TENTATIVE DISPOSITION (*complete this section last*)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (*mo., day, & yr.*):

B. APPARENT SERIOUSNESS OF PROBLEM

☐ 1. HIGH ☐ 2. MEDIUM ☒ 3. LOW ☐ 4. NONE

C. PREPARER INFORMATION

1. NAME: Renée R. Bobal

2. TELEPHONE NUMBER: (201) 621-6800

3. DATE (*mo., day, & yr.*): 8/11/82

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION

1. NAME:

2. TITLE:

3. ORGANIZATION:

4. TELEPHONE NO. (*area code & no.*):

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.

C. SITE REPRESENTATIVES INTERVIEWED (*corporate officials, workers, residents*)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS

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•Continued From Front

II. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION *(sources of waste)*

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
National Gypsum	(214) 653-8511	4100 First International Bldg Dallas, Texas	Asbestos

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS

G. DATE OF INSPECTION (mo., day, & yr.)	H. TIME OF INSPECTION	I. ACCESS GAINED BY: (credentials must be shown in all cases)
		☐ 1. PERMISSION ☐ 2. WARRANT

J. WEATHER *(describe)*

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER			
c. WASTE			
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)			

B. FIELD MEASUREMENTS TAKEN *(e.g., radioactivity, explosivity, PH, etc.)*

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS

Continued From Page 2

IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS: ☐ a. GROUND ☐ b. AERIAL

2. PHOTOS IN CUSTODY OF:

D. SITE MAPPED?

☐ YES. SPECIFY LOCATION OF MAPS: USGS Topographic Quadrangle

E. COORDINATES

1. LATITUDE (deg.-min.-sec.): 40° 40' 45"

2. LONGITUDE (deg.-min.-sec.): 74° 31' 5"

V. SITE INFORMATION

A. SITE STATUS

☐ 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)

☒ 2. INACTIVE (Those sites which no longer receive wastes.)

☐ 3. OTHER (specify): _____ (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

B. IS GENERATOR ON SITE?

☒ 1. NO ☐ 2. YES (specify generator's four-digit SIC Code): _____

C. AREA OF SITE (in acres)

D. ARE THERE BUILDINGS ON THE SITE?

☐ 1. NO ☒ 2. YES (specify):

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

X	A. TRANSPORTER	X	B. STORER	X	C. TREATER	X	D. DISPOSER
	1. RAIL		1. PILE		1. FILTRATION		1. LANDFILL
	2. SHIP		2. SURFACE IMPOUNDMENT		2. INCINERATION		2. LANDFARM
	3. BARGE		3. DRUMS		3. VOLUME REDUCTION	X	3. OPEN DUMP
	4. TRUCK		4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
	5. PIPELINE		5. TANK, BELOW GROUND		5. CHEM./PHYS./TREATMENT		5. MIDNIGHT DUMPING
	6. OTHER (specify):		6. OTHER (specify):		6. BIOLOGICAL TREATMENT		6. INCINERATION
					7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
					8. SOLVENT RECOVERY		8. OTHER (specify):
					9. OTHER (specify):		

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this for..

☐ 1. STORAGE ☐ 2. INCINERATION ☐ 3. LANDFILL ☐ 4. SURFACE IMPOUNDMENT ☐ 5. DEEP WELL

☐ 6. CHEM/BIO/PHYS TREATMENT ☐ 7. LANDFARM ☒ 8. OPEN DUMP ☐ 9. TRANSPORTER ☐ 10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

☐ 1. LIQUID ☒ 2. SOLID ☐ 3. SLUDGE ☐ 4. GAS

B. WASTE CHARACTERISTICS

☐ 1. CORROSIVE ☐ 2. IGNITABLE ☐ 3. RADIOACTIVE ☐ 4. HIGHLY VOLATILE

☒ 5. TOXIC ☐ 6. REACTIVE ☐ 7. INERT ☐ 8. FLAMMABLE

☐ 9. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

No

Continued From Front

II. WASTE RELATED INFORMATION (contit)

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT 251 - 625 Cubic yards	AMOUNT
UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE cubic yards	UNIT OF MEASURE
[ ] (1) PAINT, PIGMENTS	[ ] (1) OILY WASTES	[ ] (1) HALOGENATED SOLVENTS	[ ] (1) ACIDS	[ ] (1) FLYASH	[ ] (1) LABORATORY, PHARMACEUT.
[ ] (2) METALS SLUDGES	[ ] (2) OTHER(specify):	[ ] (2) NON-HALOGNTD. SOLVENTS	[ ] (2) PICKLING LIQUORS	[X] (2) ASBESTOS	[ ] (2) HOSPITAL
[ ] (3) POTW		[ ] (3) OTHER(specify):	[ ] (3) CAUSTICS	[ ] (3) MILLING/MINE TAILINGS	[ ] (3) RADIOACTIVE
[ ] (4) ALUMINUM SLUDGE			[ ] (4) PESTICIDES	[ ] (4) FERROUS SMELTING WASTES	[ ] (4) MUNICIPAL
[ ] (5) OTHER(specify):			[ ] (5) DYES/INKS	[ ] (5) NON-FERROUS SMLTG. WASTES	[ ] (5) OTHER(specify):
			[ ] (6) CYANIDE	[ ] (6) OTHER(specify):	
			[ ] (7) PHENOLS		
			[ ] (8) HALOGENS		
			[ ] (9) PCB		
			[ ] (10) METALS		
			[ ] (11) OTHER(specify):		

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark 'X') a. SOLID	b. LIQ.	c. VAPOR	3. TOXICITY (mark 'X') a. HIGH	b. MED.	c. LOW	d. NONE	4. CAS NUMBER	5. AMOUNT	6. UNIT
Asbestos	X							18786-21-8	251 - 625	yds^3

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

[X] A. HUMAN HEALTH HAZARDS

Asbestos is a physical carcinogen. It is eroding into the Passaic River, which is used as a source of drinking water.

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Continued From Page 4

VIII. HAZARD DESCRIPTION (continued)

☐ B. NON-WORKER INJURY/EXPOSURE

N/A

☐ C. WORKER INJURY/EXPOSURE

N/A

☐ D. CONTAMINATION OF WATER SUPPLY

N/A

☐ E. CONTAMINATION OF FOOD CHAIN

N/A

☐ F. CONTAMINATION OF GROUND WATER

N/A

☐ G. CONTAMINATION OF SURFACE WATER

N/A

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Continue On Reverse

Continued From Front

VIII. HAZARD DESCRIPTION (continued)

☐ H. DAMAGE TO FLORA/FAUNA

N/A

☐ I. FISH KILL

N/A

☐ J. CONTAMINATION OF AIR

N/A

☐ K. NOTICEABLE ODORS

N/A

☐ L. CONTAMINATION OF SOIL

yes - the asbestos is visible in the soil

☐ M. PROPERTY DAMAGE

N/A

Continued From Page 6

VIII. HAZARD DESCRIPTION (continued)

☐ N. FIRE OR EXPLOSION

N/A

☐ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

N/A

☐ P. SEWER, STORM DRAIN PROBLEMS

N/A

☐ Q. EROSION PROBLEMS

N/A

☐ R. INADEQUATE SECURITY

yes - the site is easily accessible from the Passaic River

☐ S. INCOMPATIBLE WASTES

N/A

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Continued From Page 8

X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COMMUNITY (mark 'X')	5. COMMUNITY (mark 'X')

I. RECEIVING WATER

1. NAME: Passaic River

☐ 2. SEWERS ☒ 3. STREAMS/RIVERS ☐ 4. LAKES/RESERVOIRS ☐ 5. OTHER (specify):

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Drinking Water, Recreational

XI. SOIL AND VEGITATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE ☐ B. KARST ZONE ☒ C. 100 YEAR FLOOD PLAIN ☐ D. WETLAND

☐ E. A REGULATED FLOODWAY ☐ F. CRITICAL HABITAT ☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

'X'	A. OVERBURDEN	'X'	B. BEDROCK (specify below)	'X'	C. OTHER (specify below)
	1. SAND		Basalt		
X	2. CLAY				
	3. GRAVEL				

XIII. SOIL PERMEABILITY

☐ A. UNKNOWN ☐ B. VERY HIGH (100,000 to 1000 cm/sec.) ☐ C. HIGH (1000 to 10 cm/sec.)

☐ D. MODERATE (10 to .1 cm/sec.) ☐ E. LOW (.1 to .001 cm/sec.) ☒ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS:

H. DISCHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE: 28 %

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.: West - to bank along Passaic River, covered in vegetation

J. OTHER GEOLOGICAL DATA

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Continued From Front

XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X')		
					1. YES	2. NO	3. UNKNOWN
N/A							

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☐ NONE ☐ YES (summarize in this space)

National Gypsum Company, in agreement with NJDEP, was to cover the asbestos dump and stabilize the river bank.

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.

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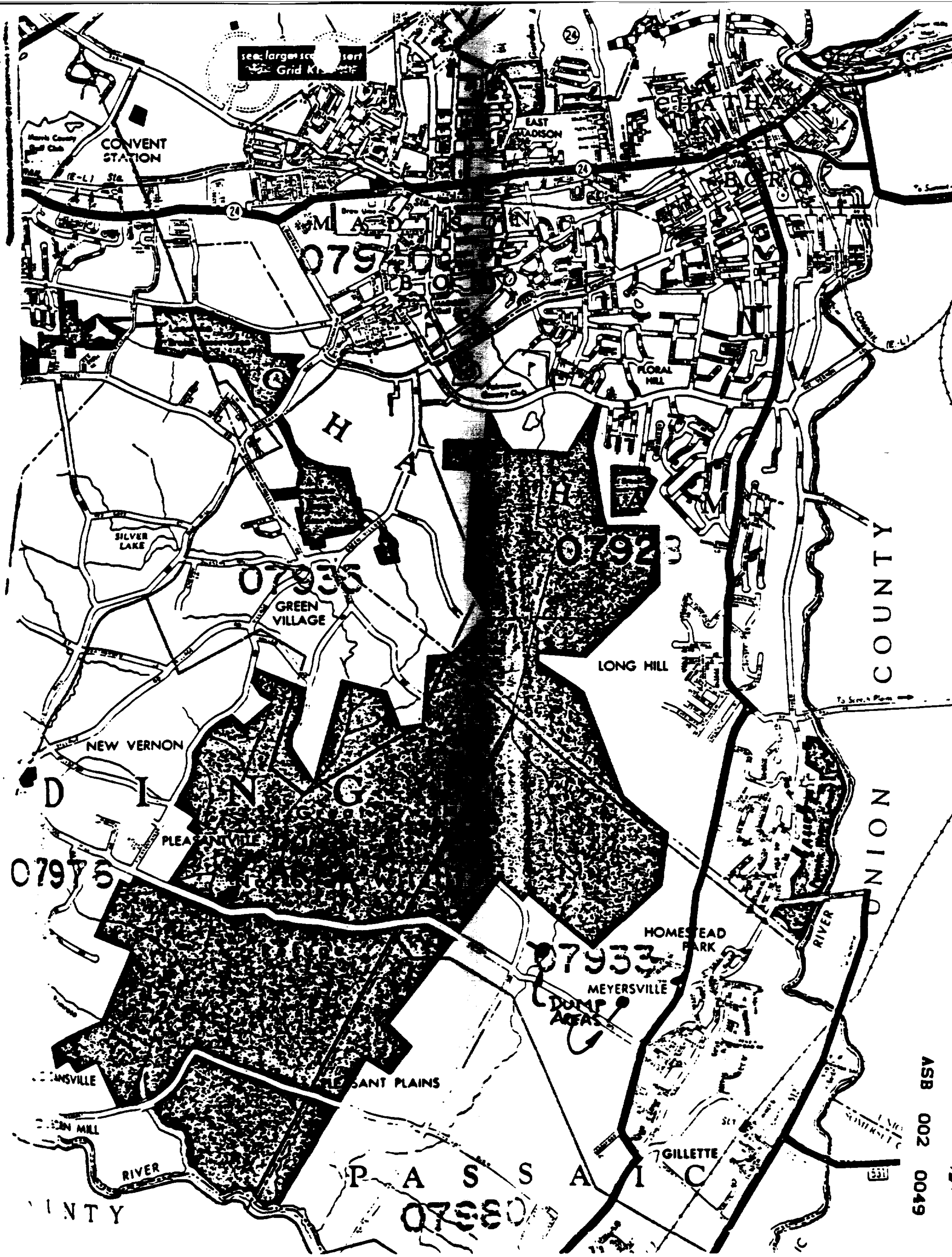
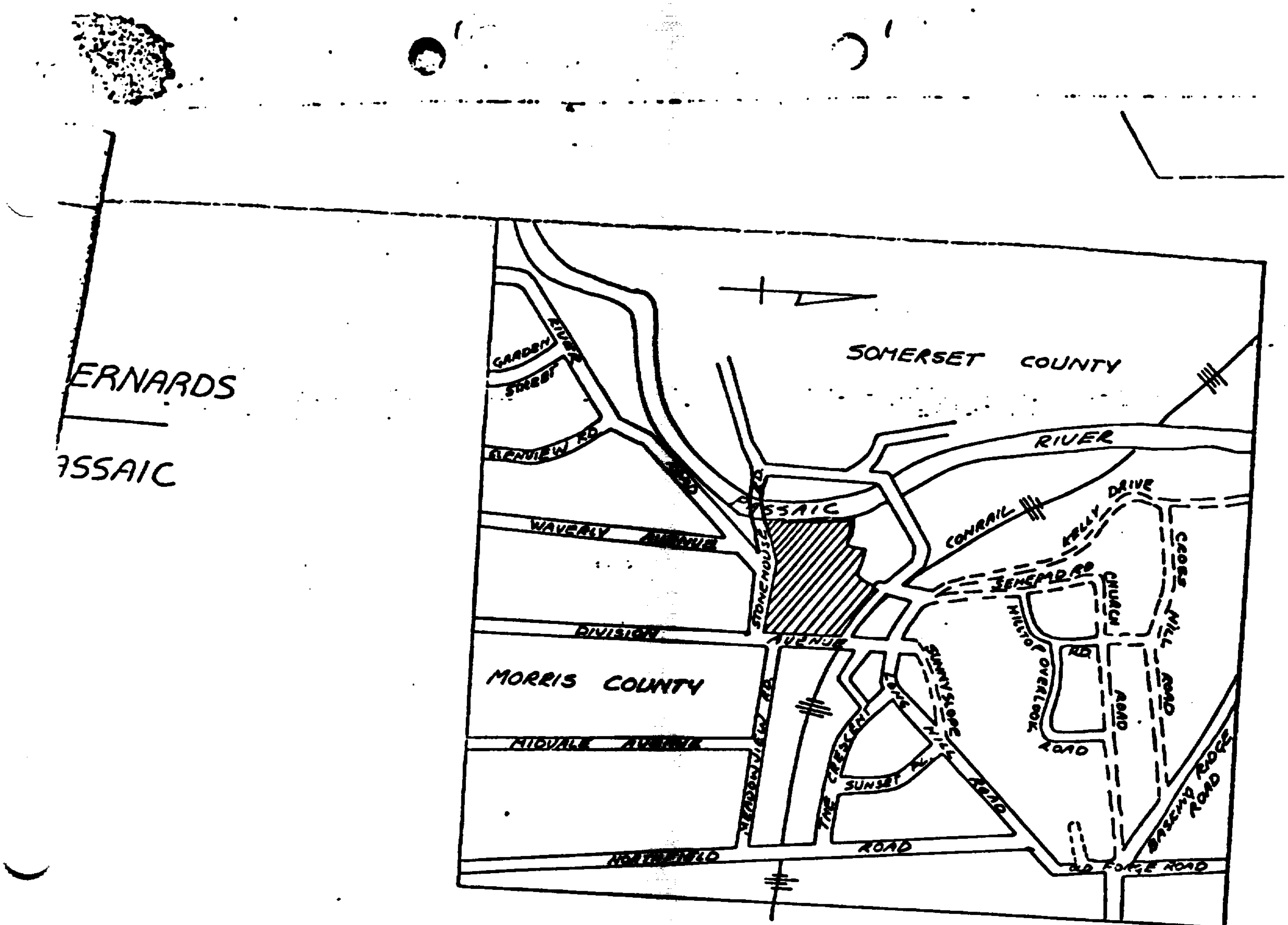
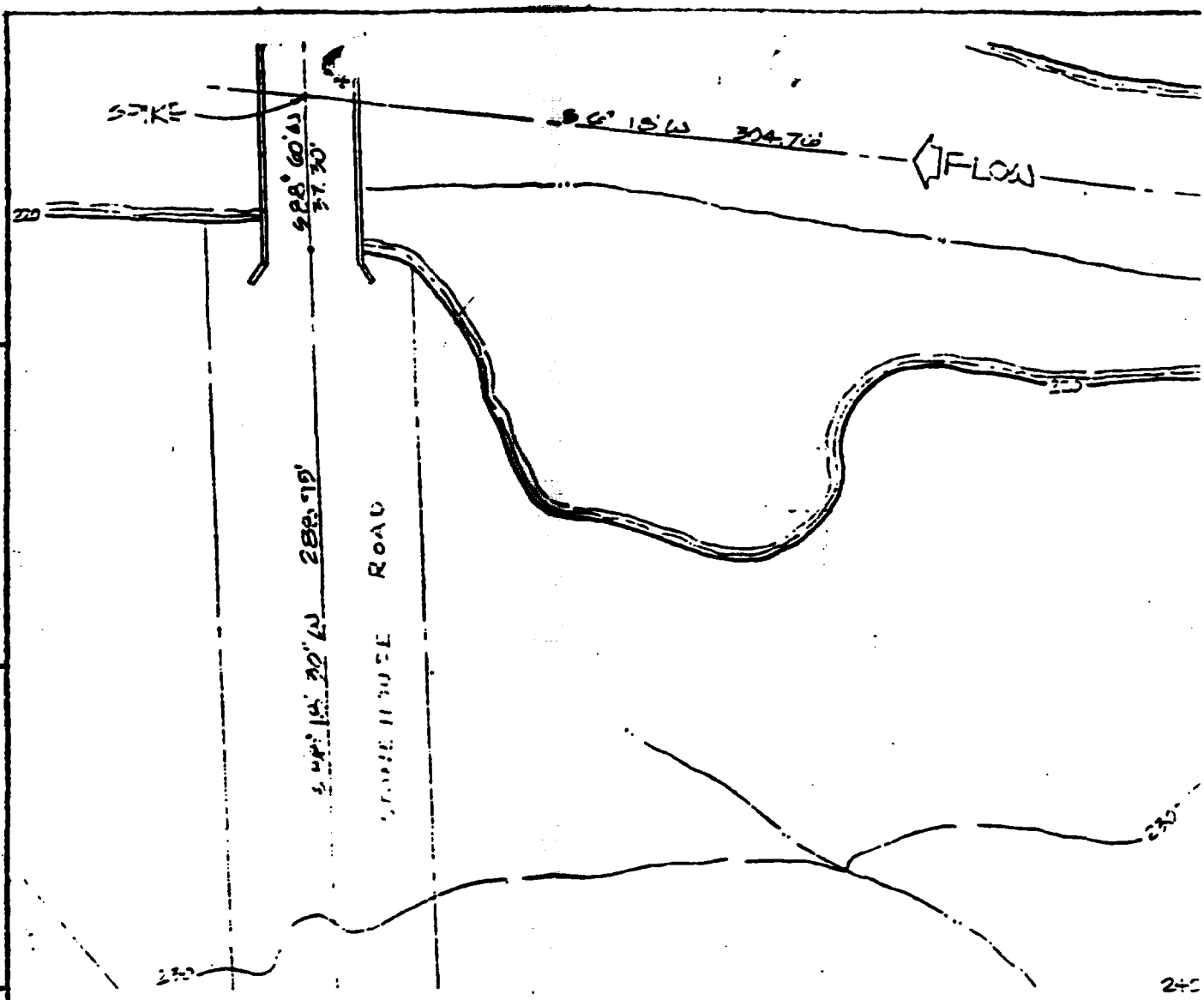
APPROXIMATE LOCATIONS OF ASBESTO DUMP AREAS

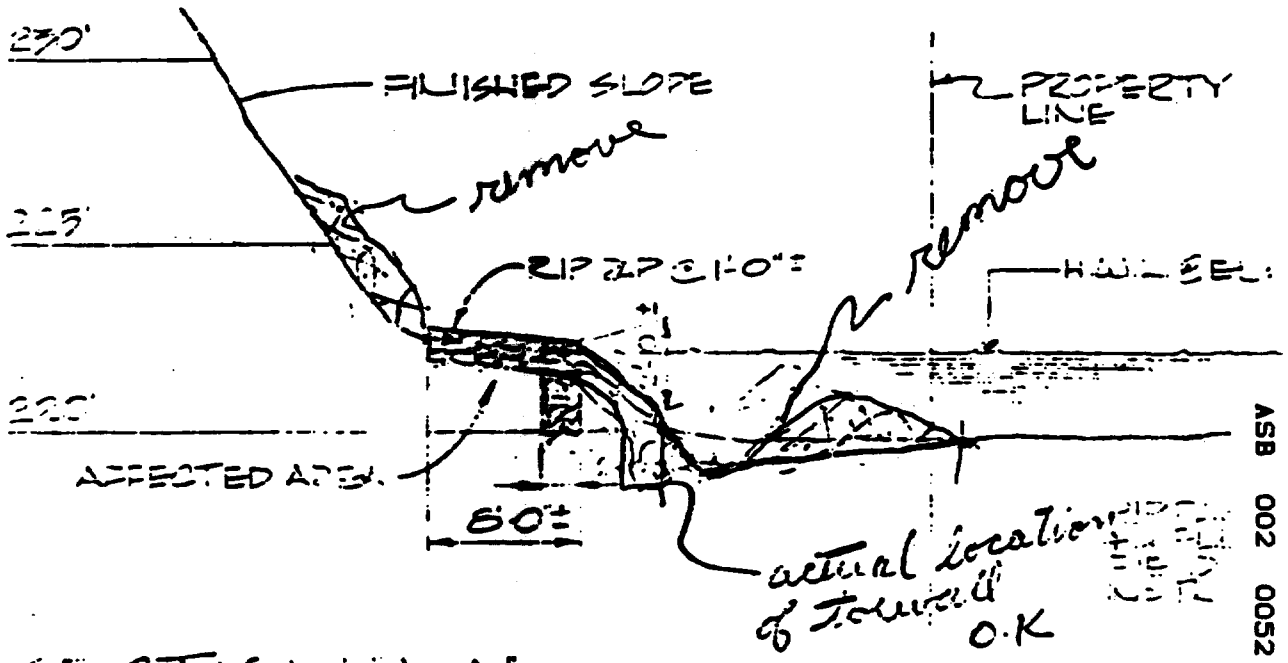

CONVENT STATION
EAST MADISON
FLORAL HILL
SILVER LAKE
07935
GREEN VILLAGE
LONG HILL
NEW VERNON
COUNTY
UNION
HOMESTEAD PARK
07933
MEYERSVILLE
DUMP AREA
RIVER
GILLETTE
P A S S A I C


Great
PLAINS
ROAD
G R E A
Black Brook
Pleasant Plains
WHITE BRIDGE ROAD
White Bridge
P A S S
Meyersville
Davis Bridge
St Josephs Shrine
Long Hill
Millington
P A S S A I C
St. Vincent DePaul Sch
Sub Sta
Stirling
VALLEY
PASSAIC
BM 225
MORRIS



KEY MAP
SCALE: 1"=1000 FT.

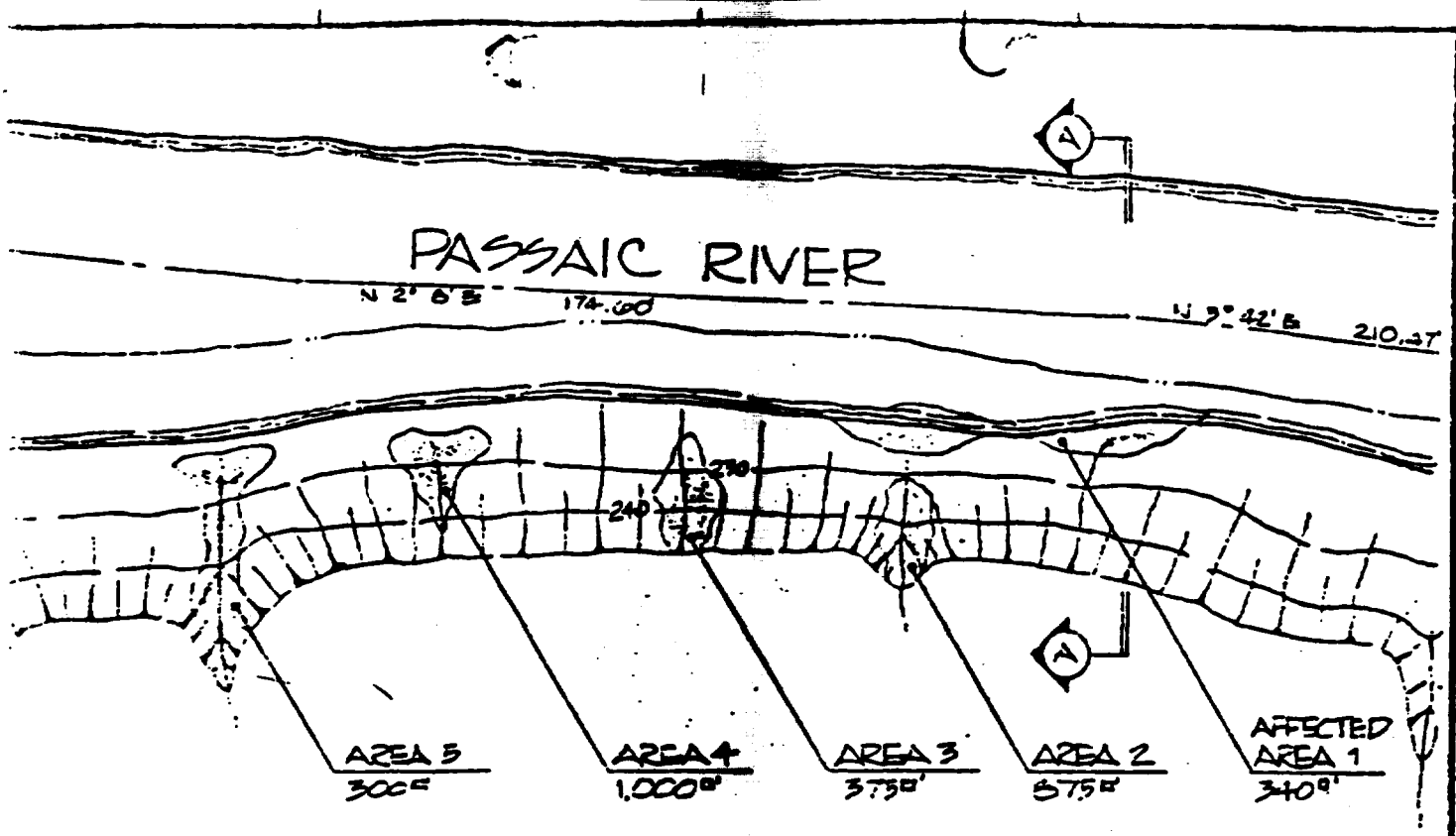




SECTION A-A AREA LOOKING SOUTH

SCALE 1"=10'-0" HORIZ. & 1'-0" VERT.

ASB 002 0052



PLAN
SCALE 1"=40'-0"

N

APPROVED
Encr. Appn. No.
8419
OCT 2 1978
State of New Jersey
Dept. Environmental Protection
Division Water Resources
Bur. Flood Plain Mgt.

8419

Raleigh H. Gilbert
8/21/78

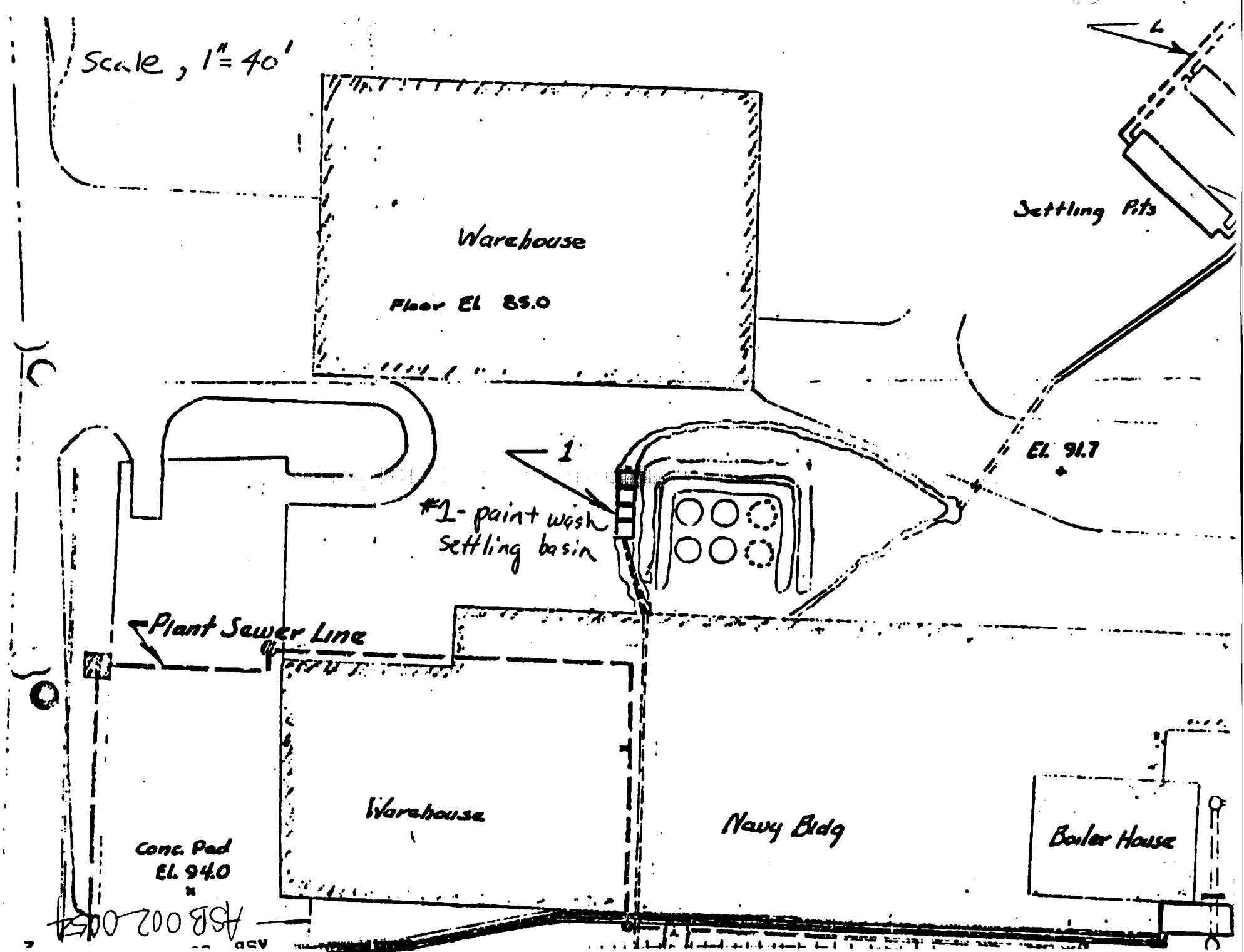
REVISION - DATE	DESCRIPTION

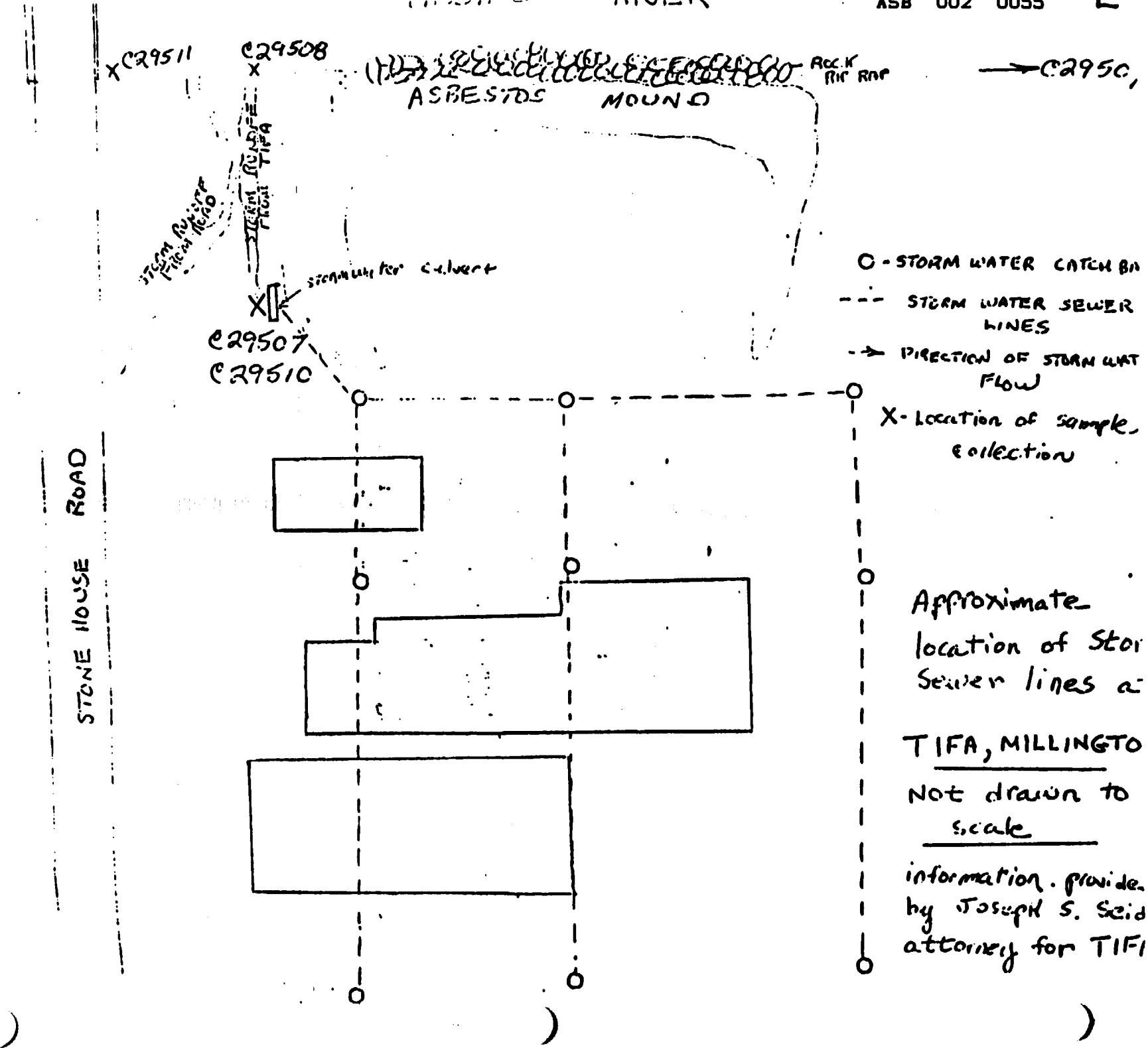
GOLD BOND BUILDING PRODUCTS
"A" DIVISION OF NATIONAL GYPSUM COMPANY
BUFFALO, NEW YORK

MILLINGTON PROPERTY
MINOR REPAIR ALONG
PASSAIC RIVER BANK

SCALE AS NOTED	DATE AUGUST 1978
DRAWN JMH	MILLINGTON N.J.
CHECKED FHC.	
APPROVED	MJP-28
PROJECT	

ASB 002 0053


Scale, 1" = 40'
Warehouse
Floor El 85.0
Settling Pits
El. 91.7
#1 - paint wash settling basin
Plant Sewer Line
Warehouse
Navy Bldg
Boiler House
Conc. Pad
El. 94.0
ASB 002 0054


ASB 002 0055
C29511
C29508
ASBESTOS MOUND
Rock Rip Rap
C2950,
STORM WATER FLOW FROM TIFA
STORM WATER FLOW FROM TIFA
STORM WATER CULVERT
C29507
C29510
STONE HOUSE ROAD
O - STORM WATER CATCH BA
STORM WATER SEWER LINES
DIRECTION OF STORM WAT FLOW
X - Location of sample collection
Approximate location of Stor Sewer lines a
TIFA, MILLINGTO
Not drawn to scale
information provide by Joseph S. Seid attorney for TIFI